

# KYAE Skills U Lesson Bank

\*Updated as of 3/5/18

## Math Lessons

Lesson Title	Author	Career Cluster	NRS Level(s)/MWOTL/Supporting and Connecting Standards/ Components of Rigor/Mathematical Practice and Employability Standards
Absolutely	Cheryl Botner	<ul style="list-style-type: none"><li>Information Technology</li></ul>	<ul style="list-style-type: none"><li>Level 4</li><li>Level D Num: Extending number sense</li><li>6.NS.7</li><li>6.NS.5</li><li>3.NF.2a 3.NF.2b</li><li>Conceptual Reasoning Procedural skill and fluency Application</li><li>MP.4 MP.6 MP.7</li><li>E.6 E.7 E.8</li></ul>
Add and Subtract Fractions	Sarah Simpson	<ul style="list-style-type: none"><li>Health Science</li></ul>	<ul style="list-style-type: none"><li>Level 3</li><li>Level C Num: fraction equivalence Num: sums, differences of fractions</li><li>N.NF.3c 5.NF.1</li><li>N.NF.3a 4.NF.3d 5.NF.2</li><li>Conceptual Understanding Procedural skill and fluency Application</li><li>MP.4 MP.5 MP.6</li><li>E.6 E.7 E.8</li></ul>
Add and Subtract Integers	Sarah Simpson	<ul style="list-style-type: none"><li>Health Science</li></ul>	<ul style="list-style-type: none"><li>Level 4</li><li>Level D Num: Extending number sense</li><li>6.NS.7 7.NS.1</li><li>6.NS.6 6.NS.6a 7.NS.1b</li></ul>

			<ul style="list-style-type: none"> <li>Conceptual Understanding Procedural skill and fluency Application</li> <li>MP.2 MP.4 MP.8</li> <li>E.7 E.8 E.9</li> </ul>
Adding Integers	Anna Adams and Sherry Combs	<ul style="list-style-type: none"> <li>Finance</li> </ul>	<ul style="list-style-type: none"> <li>Level 4</li> <li>Level D Num: Extending number sense</li> <li>7.NS.1</li> <li>6.NS.6a</li> <li>Level A 1.OA.2</li> <li>Level C 4.MD.2</li> <li>Conceptual Understanding Procedural skill and fluency Application</li> <li>MP.5 MP.7 MP.8</li> <li>E.1 E.6 E.8</li> </ul>
Adding Polynomials		<ul style="list-style-type: none"> <li>Science, Technology, Engineering and Mathematics</li> </ul>	<ul style="list-style-type: none"> <li>Level 5</li> <li>Level E Alg: polynomials and rational expressions</li> <li>A.APR.1</li> <li>A.CED.1 A.CED.4</li> <li>Level C 4.MD.3</li> <li>Conceptual Understanding Application</li> <li>MP.2 MP.7</li> <li>E.1 E.6</li> </ul>
Analyze Proportional Relationships (Scale Factors)	Ashley Gootee	<ul style="list-style-type: none"> <li>Architecture and Construction</li> <li>Arts, Audio/Video Technology and Communications</li> <li>Manufacturing</li> <li>Marketing</li> <li>Transportation, Distribution, and Logistics</li> </ul>	<ul style="list-style-type: none"> <li>Level 4</li> <li>Level D Num: ratio and rate</li> <li>6.RP.3 7.RP.1</li> <li>7.G1</li> <li>Level C 6.NS.1</li> <li>Conceptual Understanding Procedural skill and fluency Application</li> <li>MP.4 MP.6 MP.8</li> <li>E.6 E.7 E.9</li> </ul>
Analyzing Trends		<ul style="list-style-type: none"> <li>Hospitality and Tourism</li> </ul>	<ul style="list-style-type: none"> <li>Level 4</li> </ul>

		<ul style="list-style-type: none"> <li>• Manufacturing</li> <li>• Transportation, Distribution and Logistics</li> </ul>	<ul style="list-style-type: none"> <li>• Level D Stats: probability</li> <li>• 6.SP.5 7.SP.6</li> <li>• 7.SP.7 7.SP.8b</li> <li>• Level C 6.SP.4</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.6</li> <li>• E.4 E.7</li> </ul>
Budgeting: Learning to Manage Money to Achieve Your Goals	Beth Rudd	<ul style="list-style-type: none"> <li>• Student Retention and Persistence</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3 Level 4</li> <li>• Level D Num: Extending number sense</li> <li>• 7.Ns.3</li> <li>• 3.NBT.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.4 MP.7</li> <li>• E.7 E.8</li> </ul>
Budgeting with Math			<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: Extending number sense</li> <li>Alg: expressions and linear equations</li> <li>• 7.Ns.3 7.EE.3</li> <li>• 3.NBT.2 6.RP.3c</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 Mp.5 Mp.7</li> <li>• E.7 E.8</li> </ul>
Calculating Percent in Real-Life Situation	Ashley Gootee	<ul style="list-style-type: none"> <li>• Business Management and Administration</li> <li>• Finance</li> <li>• Marketing</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: ratio and rate</li> <li>• 6.RP.3c</li> <li>• 7.EE.3</li> <li>• Level D</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• Mp.1 MP.4</li> <li>• E.7 E.9</li> </ul>

Calculating Perimeter and Area of Rectangle	Ashley Gootee	<ul style="list-style-type: none"> <li>Architecture and Construction</li> <li>Information Technology</li> <li>Science, Technology, Engineering and Mathematics</li> <li>Transpiration, Distribution and Logistics</li> </ul>	<ul style="list-style-type: none"> <li>Level 4</li> <li>Level D Geo: Solving 2- and 3-dimensional figures</li> <li>7.G.6</li> <li>4.MD.3 7.EE.4a</li> <li>Level C 4.MD.3 6.G.4</li> <li>Level D 8.EE.2</li> <li>Conceptual Understanding Procedural skill and fluency Application</li> <li>MP.1 MP.4</li> <li>E.7 E.9</li> </ul>
Checkbook Integers		<ul style="list-style-type: none"> <li>Finance</li> </ul>	<ul style="list-style-type: none"> <li>Level 4</li> <li>Level D Num: Extending number sense</li> <li>7.NS.1 7.NS.1b</li> <li>7.NS.1a 7.NS.1c</li> <li>Level C 6.NS.6</li> <li>Level D 6.NS.7c</li> <li>Conceptual Understanding Procedural skill and fluency Application</li> <li>MP.1 MP.6</li> <li>E.2 E.5</li> </ul>
Circumference and Area of a Circle	Annette Jefferson		<ul style="list-style-type: none"> <li>Level 4</li> <li>Level C Alg: expressions and equations</li> <li>Level D Alg: expressions and linear equations Geo: Solving 2- and 3-dimensional figures</li> <li>6.EE.1 7.G.4</li> <li>6.EE.2c</li> <li>Conceptual Understanding Procedural skill and fluency Application</li> <li>MP.5 MP.6 MP.7</li> <li>E.2 E.6</li> </ul>
Combining Operations	Sarah Simpson	<ul style="list-style-type: none"> <li>Health Science</li> </ul>	<ul style="list-style-type: none"> <li>Level 4</li> <li>Level D Num: Extending number sense</li> </ul>

			<ul style="list-style-type: none"> <li>• 7.NS.1d 7.NS.2</li> <li>• 5.OA.1</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.6</li> <li>• E.7 E.8</li> </ul>
Composite Shapes	Ashley Gootee		<ul style="list-style-type: none"> <li>• Level 2</li> <li>• Level B Geo: area</li> <li>• 3.MD.7 1.G.2 3.G.2</li> <li>• Level B 3.MD.5 3.MD.6</li> <li>• Level C 4.MD.3 5.NF.4</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4 MP.6 MP.7</li> <li>• E.7 E.8</li> </ul>
Converting Fractions to Decimals and Decimals to Fractions	Beth Rudd	<ul style="list-style-type: none"> <li>• Architecture and Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: Extending number sense</li> <li>• 7.NS.2d 7.NS.3</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.2 MP.4</li> <li>• E.3 E.7 E.8</li> </ul>
Cover This (Finding Area)	Lindsey LaBore		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Geo: Solving 2- and 3-dimensional figures</li> <li>• 7.G.6</li> <li>• 6.G.1 7.G.4</li> <li>• Level C 4.MD.3</li> <li>• Level D 8.EE.2 8.NS.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.2 MP.4 MP.6</li> <li>• E.1 E.6 E.8</li> </ul>
Decimals	Sarah Simpson	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3</li> </ul>

			<ul style="list-style-type: none"> <li>• Level C Num: decimals to thousandths</li> <li>Num: operations</li> <li>• 5.NBT.7 6.NS.3</li> <li>• 4.NF.6 5.NBT.3 6.EE.2c</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.6</li> <li>• E.1 E.7 E.8</li> </ul>
Divide and Conquer	Ashley Gootee		<ul style="list-style-type: none"> <li>• Level 5</li> <li>• Level D Geo: Solving 2- and 3-dimensional figures</li> <li>• Level E Geo: using models</li> <li>• 7.G.4 7.G.6</li> <li>• 5.MD.5c 6.EE.2c G.GMD.3</li> <li>• Level E G.MG.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.2 MP.6</li> <li>• E.1 E.6 E.7</li> </ul>
Education Pays	Susie Roberts		<ul style="list-style-type: none"> <li>• Level 5</li> <li>• Level D Num: ratio and rate</li> <li>• 7.RP.3</li> <li>• 6.RP.3c</li> <li>• 6.RP.1</li> <li>• Conceptual Understanding Procedural skill and fluency</li> <li>• MP.2</li> <li>• E.7</li> </ul>
Employability Skills Lesson 3	Susie Roberts	<ul style="list-style-type: none"> <li>• Career Exploration</li> <li>• Soft Skills</li> </ul>	<ul style="list-style-type: none"> <li>• Level 2 Level 3</li> <li>• Level C Num: rational numbers</li> <li>• 4.NBT.4</li> <li>• 3.NMT.3 4.NBT.3</li> <li>• Procedural skill and fluency</li> <li>• MP.6</li> </ul>

			<ul style="list-style-type: none"> <li>• E.6 E.7</li> </ul>
Employability Skills Lesson 4	Susie Roberts	<ul style="list-style-type: none"> <li>• Career Exploration</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level D Stats: data distributions</li> <li>• 6.SP.5</li> <li>• E.2 E.6 e.9</li> </ul>
Equations for Trade Jobs	Beth Rudd	<ul style="list-style-type: none"> <li>• Architecture and Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Alg: expressions and linear equations Alg: Solving linear equations</li> <li>• 7.EE.4a</li> <li>• 7.EE.4 8.EE.7</li> <li>• Conceptual Understanding Application</li> <li>• MP.1 MP.2 MP.4</li> <li>• E.7</li> </ul>
Equivalent Fractions	Sarah Simpson	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 2</li> <li>• Level B Num: understanding fractions</li> <li>• Level C Num: fraction equivalence</li> <li>• 3.NF.2a 3.NF.2b</li> <li>• 4.NF.2</li> <li>• 3.NF.3 3.NF.3a 3.NF3b</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4 MP.5 MP.6</li> <li>• E.6 E.7 E.8</li> </ul>
Exponents, Roots, and Scientific Notation	Sarah Simpson	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: Extending number sense</li> <li>• Level C Alg: expressions and equations</li> <li>• Level C 6.EE.1</li> <li>• 5.NBT.2 8.EE.2 8.EE.4</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.2 MP.6</li> <li>• E.7 E.9</li> </ul>
Factoring Polynomials	Erron Prickett		<ul style="list-style-type: none"> <li>• Level 5</li> </ul>

			<ul style="list-style-type: none"> <li>• Level E Alg: polynomials and rational expressions</li> <li>• A.APR.1</li> <li>• A.APR.6 A.CED.1</li> <li>• Conceptual Understanding Application</li> <li>• MP.2 MP.7</li> <li>• E.1 E.6</li> </ul>
Finding the Unknown Percent, Part, or Whole for Trade Jobs	Beth Rudd	<ul style="list-style-type: none"> <li>• Architecture and Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: ratio and rate</li> <li>• 6.RP.3c</li> <li>• 7.EE.3</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.2 MP.4</li> <li>• E.7</li> </ul>
Funky Equations of the Line	Diane Kelley		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Alg: concept of functions</li> <li>• 8.F.3</li> <li>• 8.F.1 8.SP.3</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.5 MP.7</li> <li>• E.1 E.7 E.8</li> </ul>
Funky Functions	Diane Kelley		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level C Alg: expressions and equations</li> <li>• 4.OA.5</li> <li>• Level B 3.OA.9</li> <li>• Level C 6.EE.2</li> <li>• Conceptual Understanding Application</li> <li>• MP.1 MP.8</li> <li>• E.1 E.7 E.8</li> </ul>
Funky Patterns	Diane Kelley		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level C Alg: expressions and equations</li> <li>• 4.OA.5</li> </ul>

			<ul style="list-style-type: none"> <li>• Level B 3.OA.9</li> <li>• Level C 6.EE.2</li> <li>• Conceptual Understanding Application</li> <li>• MP.1 MP.8</li> <li>• E.1 E.7 E.8</li> </ul>
Funky Town Festival	Diane Kelley		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Alg: concept of functions Alg: Graphing functions</li> <li>• 8.F.3</li> <li>• Level D 8.F.4 8.SP.3</li> <li>• Level E A.SSE.3 F.IF.8b</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.8</li> <li>• E.7 E.8</li> </ul>
Grid and Battleship			<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: Extending number sense</li> <li>• 6.NS.7</li> <li>• 6.NS.6B</li> <li>• Level D 7.NS.1a</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4 MP.5 MP.6</li> <li>• E.2 E.7 E.8</li> </ul>
Hospital Beds, Nurse's Aides, and the Future	Laura Lang	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4 Level 5</li> <li>• Level D Num: ratio and rate Alg: expressions and linear equations</li> <li>• 7.RP.1 7.EE.4</li> <li>• 7.SP.7</li> <li>• Level C 4.NF.3 4.NF.6</li> <li>• Application</li> <li>• MP.3 MP.4</li> <li>• E.1 E.2 E.7</li> </ul>
How Steep Is It?	Ashley Gootee		<ul style="list-style-type: none"> <li>• Level 5</li> </ul>

			<ul style="list-style-type: none"> <li>• Level D Alg. Proportional relationships Alg. Graphing functions</li> <li>• 8.EE.5</li> <li>• 7.RP.2a 7.RP.2d F.IF.6</li> <li>• Level D 8.F.4 8.F.5</li> <li>• Level E A.REI.10</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4 MP.6 MP.8</li> <li>• E.3 E.6 E.7</li> </ul>
Introduction to Circles	Verinda Rose		<ul style="list-style-type: none"> <li>• Level 3 Level 4</li> <li>• Level D Num: ratio and rate Geo: Analyzing shapes</li> <li>• 7.G.4</li> <li>• 6.RP.3d 7.RP.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4 MP.5 MP.7</li> <li>• E.1 E.5 E.6</li> </ul>
Introduction to Pythagorean Theorem	Pat McKinley		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Geo: Pythagorean theorem</li> <li>• 8.G.7</li> <li>• 6.EE.2c 6.EE.6 8.EE.2</li> <li>• Level C 6.EE.5 6.EE.7</li> <li>• MP.3 MP.4 MP.8</li> <li>• E.1 E.7 E.8</li> </ul>
Introduction to Signed Numbers	Sarah Menshouse		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: Extending number sense</li> <li>• 7.NS.1</li> <li>• Level D 6.NS.6c</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• Mp.1 MP.5 MP.7</li> <li>• E.6 E.7 E.10</li> </ul>

It's Party Time!	Stacey Dove	<ul style="list-style-type: none"> <li>• Finance</li> </ul>	<ul style="list-style-type: none"> <li>• Level 2 Level 3</li> <li>• Level B Num: div as inverse of multi</li> <li>• Level C: Num: operations</li> <li>• Level C: 4.NBT.6</li> <li>• 3.OA.6</li> <li>• Level C 6.NS.4</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.2 MP.3 MP.6</li> <li>• E.1</li> </ul>
Locate Points in the Coordinate Plane	Annette Jefferson		<ul style="list-style-type: none"> <li>• Level 3 Level 4</li> <li>• Level C Geo: coordinate plane</li> <li>• 5.G.1 5.G.2</li> <li>• 4.G.1</li> <li>• Level C 6.NS.6</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.5 MP.6 MP.7</li> <li>• E.6 E.7</li> </ul>
Location, Location, Location: Navigating in the Coordinate Plane	Jackie Robertson		<ul style="list-style-type: none"> <li>• Level 3 Level 4</li> <li>• Level C Geo: coordinate plane</li> <li>• Level D Num: Extending number sense</li> <li>• 5.G.1 5.G.2</li> <li>• 6.NS.6c 6.NS.8 W/WHST.6-8.2</li> <li>• Level C 6.NS.6</li> <li>• Level D 6.NS.8 8.F.4</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4 MP.5 MP.7</li> <li>• E.1 E.6 E.9</li> </ul>
Math Skills for Carpet & Tile Installation	Beth Rudd	<ul style="list-style-type: none"> <li>• Architecture and Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3 Level 4</li> <li>• Level C Geo: coordinate plane</li> <li>• Level D Num: Extending number sense</li> <li>• 4.MD.3 5.MD.1 7.EE.4</li> </ul>

			<ul style="list-style-type: none"> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.4 MP.5</li> <li>• E.1 E.6 E.7</li> </ul>
Mean, Median, Mode, Range	Jennifer Yellets DesRochers		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Stats: data distributions</li> <li>• 6.SP.5</li> <li>• 6.NS.7 6.SP.2</li> <li>• Level B</li> <li>• Level D</li> <li>• Level E N.Q.3 S.ID.3</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.2 MP.3 MP.5</li> <li>• E.6 E.7</li> </ul>
Measures of Central Tendency	Sarah Simpson	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level C Stats: statistical variability</li> <li>• 6.SP.3</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.5 MP.6</li> <li>• E.1 E.6 E.7</li> </ul>
Measuring Angles	Annie Adams Sherry Combs		<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level C Geo: classifying figures</li> <li>• 4.G.1</li> <li>• 4.MD.5 4.MD.6</li> <li>• Level D 8.G.5</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.5 MP.6 MP.8</li> <li>• E.6 E.7</li> </ul>
Medical Math and Unit Conversions	Ashley Gootee	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level D Num: ratio and rate</li> <li>• 6.RP.3d</li> </ul>

			<ul style="list-style-type: none"> <li>• 3.MD.2 5.MD.1</li> <li>• Level D 7.SP.7 7.SP.8a</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.5 MP.6</li> <li>• E.1 E.6 E.7</li> </ul>
Multiply and Divide Fractions	Sarah Simpson	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level C Num: sums, differences of fractions Num: ratio/rate to multi/div</li> <li>• 5.NF.4 5.NF.7</li> <li>• 4.NF.4 4.NF.4c 6.NS.1</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4 MP.6</li> <li>• E.6 E.7 E.8</li> </ul>
Multiply Polynomials	Erron Prickett		<ul style="list-style-type: none"> <li>• Level 5</li> <li>• Level E Alg: polynomials and rational expressions</li> <li>• A.APR.1</li> <li>• 5.NBT.5 A.CED.1 A.CED.4</li> <li>• Conceptual Understanding Application</li> <li>• MP.2 MP.7</li> <li>• E.1 E.6</li> </ul>
Ohm's Law: Equations for Electricians	Beth Rudd	<ul style="list-style-type: none"> <li>• Architecture and Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Alg: expressions and linear equations Alg: Solving linear equations</li> <li>• 7.EE.4a</li> <li>• 7.EE.4 8.EE.7</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.2 MP.4</li> <li>• E.7</li> </ul>
Oxygen Needs by the Numbers	Laura Lang	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: ratio and rate</li> </ul>

			<ul style="list-style-type: none"> <li>• 7.RP.1</li> <li>• 6.NS.7 6.RP.1</li> <li>• Procedural skill and fluency</li> <li>• MP.4 MP.6</li> <li>• E.1 E.7</li> </ul>
Parts, Percents, and Wholes	Athena Brandow	•	•
Percent and Pie Charts	Erron Prickett	<ul style="list-style-type: none"> <li>• Manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3 Level 4</li> <li>• Level D Num: ratio and rate</li> <li>• 6.RP.3c 6.RP.3d</li> <li>• 7.EE.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.4</li> <li>• E.7 E.9</li> </ul>
Percent Applications	Sarah Simpson	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: ration and rate</li> <li>• 6.RP.3c 7.RP.3</li> <li>• 6.RP.1</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.2</li> <li>• E.6 E.7 E.9</li> </ul>
Percent Basics	Sarah Simpson	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level D Num: ratio and rate</li> <li>• 6.RP.3 6.RP.3c</li> <li>• 6.RP.3a</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.2 MP.7</li> <li>• E.1 E.7 E.8</li> </ul>
Playing with Pythagoras	Allen Thomas		<ul style="list-style-type: none"> <li>• Level 4 Level 5</li> <li>• Level D Geo: Pythagorean theorem</li> <li>• 8.G.7 8.G.8</li> <li>• 8.EE.7</li> </ul>

			<ul style="list-style-type: none"> <li>• Conceptual Understanding Procedural skill and fluency</li> <li>• MP.1 MP.8</li> <li>• E.8</li> </ul>
Positive and Negative Numbers	Angela Strether		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: Extending number sense</li> <li>• 6.NS.7 7.NS.1</li> <li>• 6.NS.5</li> <li>• 6.NS.6c 6.NS.7a</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.2 MP.4</li> <li>• E.7</li> </ul>
Pre-Algebra Basics	Sarah Simpson	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level C Alg: expressions and equations</li> <li>• Level D Alg: proportional relationships</li> <li>• 6.EE.2a 6.EE.6</li> <li>• 5.OA.2 6.EE.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.2 MP.6</li> <li>• E.1 E.6 E.7</li> </ul>
Profit and Growth	Randall Scott	<ul style="list-style-type: none"> <li>• Hospitality and Tourism</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Geo: scale drawings</li> <li>• Level D 7.G.1 8.G.4</li> <li>• 7.G.6</li> <li>• Level C 4.MD.3</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.4 MP.5</li> <li>• E.6 E.7</li> </ul>
Proportional Relationships	Ashely Gootee	<ul style="list-style-type: none"> <li>• Agriculture, Food and Natural Resources</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D</li> <li>• 7.RP.2</li> </ul>

			<ul style="list-style-type: none"> <li>• Level C</li> <li>• Level D</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• Mp.1 Mp.2 Mp.3</li> <li>• E.6 E.7 E.8</li> </ul>
Proportions for Trade Jobs	Beth Rudd	<ul style="list-style-type: none"> <li>• Architecture and Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: ratio and rate Alg: proportional relationships</li> <li>• Level D 6.RP.3 6.RP.3b 7.RP.3</li> <li>• 4.NF.1 4.OA.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.4</li> <li>• E.7 E.9</li> </ul>
Ratio and Proportion	Sarah Simpson	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: ratio and rate Alg: proportional relationships</li> <li>• Level C Num: ratio/rate to multi/div</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• Mp.1 MP.8</li> <li>• E.6 E.7 E.9</li> </ul>
Ratio and Proportion- Using a Double Number Line		<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level D Num: ratio and rate</li> <li>• Level C Num: ratio/rate to mult/div</li> <li>• Level C 6.RP.1 6.RP.2</li> <li>• Level D 6.RP.3</li> <li>• 6.RP.3a 7.RP.2</li> <li>• Level C 4.OA.2 5.MD.2</li> <li>• Level D 7.SP.7 8.F.4</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.2 MP.4 MP.5</li> </ul>

Real World Perimeter and Area	Annette Jefferson		<ul style="list-style-type: none"> <li>• E.7 E.8</li> <li>• Level 2 Level 3</li> <li>• Level B Geo: area</li> <li>• Level C Num: operations Geo: classifying figures</li> <li>• Geometry Level B 3.MD.5</li> <li>• 3.MD.84.MD.3 4.NBT.3</li> <li>• Level B 3.OA.5</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4 MP.5 MP.7</li> <li>• E.5 E.6 E.7</li> </ul>
Real-Life Proportions	Julie Snider	<ul style="list-style-type: none"> <li>• Business Management and Administration</li> <li>• Finance</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: ratio and rate Alg: proportional relationships</li> <li>• 6.RP.3 7.RP.3 8.EE.5</li> <li>• 6.RP.3b 7.RP.2a 7.RP.2b</li> <li>• Level D 7.SP.7 8.F.4</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.4 MP.8</li> <li>• E.7 E.9</li> </ul>
Real-Life Ratios and Rates	Julie Snider	<ul style="list-style-type: none"> <li>• Business Management and Administration</li> <li>• Finance</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: ratio and rate</li> <li>• 6.RP.3 7.RP.1</li> <li>• 6.RP.3a 6RP.3b</li> <li>• Level C 6.EE.4</li> <li>• Level D 7.SP.7</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.4 MP.8</li> <li>• E.7 E.9</li> </ul>
Subtracting Polynomials	Erron Prickett		<ul style="list-style-type: none"> <li>• Level 5</li> </ul>

			<ul style="list-style-type: none"> <li>• Level E Alg. Polynomials and rational expressions</li> <li>• A.APR.1</li> <li>• A.CED.1 A.CED.4</li> <li>• Conceptual Understanding Procedural skill and fluency</li> <li>• MP.2 MP.7</li> <li>• E.1 E.6</li> </ul>
Talking to the Problem: Questioning Techniques for Geometry			<ul style="list-style-type: none"> <li>• Level 5 Level 6</li> <li>• Level D Alg: expressions and linear equations Geo: Solving 2- and 3-dimensional figures</li> <li>• 7.EE.3</li> <li>• 7.G.4 7.G.6</li> <li>• 6.EE.5 8.G.4</li> <li>• Level C 4.MD.3</li> <li>• Level E G.GMD.3</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 Mp.2 MP.4</li> <li>• E.6 E.7</li> </ul>
Task-Based Pythagoras	Goldie McCalvin		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Geo: Pythagorean theorem</li> <li>• 8.G.7</li> <li>• 6.EE.1 8.EE.7 A.SSE.1</li> <li>• Level C4.MD.4 6.EE.7</li> <li>• Level D 8.EE.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• Mp.1 MP.2 MP.5</li> <li>• E.7 E.9</li> </ul>
The Four Operations with Fractions for Trade Jobs	Beth Rudd	<ul style="list-style-type: none"> <li>• Architecture and Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3 Level 4</li> <li>• Level C Num; sums, differences of fractions</li> <li>• Level D Num: Extending number sense</li> </ul>

			<ul style="list-style-type: none"> <li>• 5.NF.7</li> <li>• 7.NS.3</li> <li>• 4.NF.4c 5.NF.1 5.NF.3</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.2 MP.4</li> <li>• E.7 E.9</li> </ul>
The Shape of Things to Come	Wolfe County AE Team		<ul style="list-style-type: none"> <li>• Level 2</li> <li>• Level B Geo: 2-dimensional shapes</li> <li>• 2.G.1</li> <li>• 3.G.1 RI.3.7</li> <li>• Level B</li> <li>• Level C 4.MD.5</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4 MP.7</li> <li>• E.1 E.6</li> </ul>
The Volume of Prisms and Pyramids	Ashley Gootee		<ul style="list-style-type: none"> <li>• Level 5</li> <li>• Level D Geo: Solving 2- and 3-dimensional figures</li> <li>• Level E Geo: using models</li> <li>• G.GMD.3</li> <li>• G.MG.2 RI.6.7</li> <li>• Level E G.MG.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• Mp.1 MP.2 MP.6</li> <li>• E.1 E.6 E.7</li> </ul>
Things that Are Round	Ashley Gootee		<ul style="list-style-type: none"> <li>• Level 4 Level 5</li> <li>• Level D Geo: Solving 2- and 3-dimensional figures</li> <li>• Level E Geo: using models</li> <li>• G.GMD.3</li> <li>• 6.EE.7 G.GO.1</li> </ul>

			<ul style="list-style-type: none"> <li>• Level E G.MG.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.5 MP.6</li> <li>• E.1 E.5 E.7</li> </ul>
Three Views of a Ratio: Using Unit Rate	Ashley Gootee	• Health Science	<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level D Num: ratio and rate</li> <li>• 6.RP.3</li> <li>• 6.RP.3a 6.RP.3b</li> <li>• Level D 7.SP.7 7.SP.8a</li> <li>• Level C 4.OA.2 5.NF.7c</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.2 MP.4 MP.5</li> <li>• E.3 E.8</li> </ul>
Three-Dimensional Shapes	Ashley Gootee		<ul style="list-style-type: none"> <li>• Level 1 Level 2</li> <li>• Level A Geo: shapes</li> <li>• K.G.4</li> <li>• 2.G.1</li> <li>• Level A 1.G.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.2 MP.5 Mp.7</li> <li>• E.6 E.8</li> </ul>
Three-Dimensional Shapes: Area and Nets	Ashley Gootee		<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level C Geo: volume, surface area</li> <li>• Level B Geo: area</li> <li>• 3.MD.7d</li> <li>• 5.G.3</li> <li>• 6.G.4</li> <li>• Level C 5.G.3</li> <li>• Level B 2.G.1 3.G.1</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> </ul>

			<ul style="list-style-type: none"> <li>• MP.7</li> <li>• E.7 E.8</li> </ul>
Time Management	Susie Roberts		<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level C Num: operations</li> <li>• 5.NBT.5 6.NS.2</li> <li>• 4.NBT.6 5.NBT.5 5.NBT.6</li> <li>• Level C 6.RP.1</li> <li>• Conceptual Understanding Application</li> <li>• Mp.4</li> <li>• E.5 E.7</li> </ul>
Two Dimensional Shapes	Chrissy McCalvin		<ul style="list-style-type: none"> <li>• Level 2</li> <li>• Level B Geo: 2-dimensional shapes</li> <li>• 2.G.1</li> <li>• 3.G.1</li> <li>• Level A 1.G.2 K.G.4</li> <li>• Level B 3.G.1</li> <li>• Conceptual Understanding Procedural skill and fluency</li> <li>• MP.3 MP.8</li> <li>• E.8</li> </ul>
Two-Dimensional Shapes: Area and Perimeter	Ashley Gootee		<ul style="list-style-type: none"> <li>• Level 2 Level 3</li> <li>• Level B Geo: area</li> <li>• 3.MD.5</li> <li>• 3.MD.6</li> <li>• Level A 1.G.2</li> <li>• Level B 3.MD.6 3.MD.7</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.3 MP.5</li> <li>• E.7 E.8</li> </ul>
Understanding Fractions	Sherri Scott	<ul style="list-style-type: none"> <li>• Agriculture, Food, and Natural Resources</li> <li>• Architecture and Construction</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3</li> <li>• Level C Num: ratio/rate to mult/div</li> <li>• 5.NF.4 5.NF.7</li> </ul>

			<ul style="list-style-type: none"> <li>Conceptual Understanding Procedural skill and fluency Application</li> <li>MP.4 MP.5 MP.7</li> <li>E.5 E.6 E.7</li> </ul>
Understanding Polynomials: A Brief Introduction	Erron Prickett	<ul style="list-style-type: none"> <li>Science, Technology, Engineering &amp; Mathematics</li> </ul>	<ul style="list-style-type: none"> <li>Level 4 Level 5</li> <li>Level E Alg: Defining Alg: structure of expressions</li> <li>A.SSE.1</li> <li>A.SSE.1a</li> <li>Conceptual Understanding Procedural skill and fluency Application</li> <li>Mp.2 MP.7</li> <li>E.1 E.6</li> </ul>
Understanding Ratios: Using Ratio Tables		<ul style="list-style-type: none"> <li>Health Science</li> </ul>	<ul style="list-style-type: none"> <li>Level 3</li> <li>Level D Num: Ratio and rate</li> <li>6.RP.3</li> <li>6.RP.3a</li> <li>Level C 6.EE.7</li> <li>Level D 7.EE.2 8.F.4</li> <li>Conceptual Understanding Procedural skill and fluency Application</li> <li>Mp.2 MP.4 MP.5</li> <li>E.6 E.8</li> </ul>
Using Formulas in Real Life (Including Geometry Formulas)	Jerra Wood Mark Meade	<ul style="list-style-type: none"> <li>Manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>Level 5</li> <li>Level E Alg: structure of expressions</li> <li>A.SSE.2</li> <li>A.CED.4</li> <li>Conceptual Understanding Procedural skill and fluency</li> <li>MP.1 MP.7</li> <li>E.7 E.9</li> </ul>
Using Proportion to Solve Direct and Inverse Variation	Brian Thomas	<ul style="list-style-type: none"> <li>Architecture &amp; Construction</li> <li>Health Science</li> </ul>	<ul style="list-style-type: none"> <li>Level 4</li> <li>Level D Num: ratio and rate Alg: proportional relationships</li> </ul>

		<ul style="list-style-type: none"> <li>• Manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>• 6.RP.3 6.RP.3b</li> <li>• 7.EE.4</li> <li>• 7.NS.2c 7.NS.3</li> <li>• Procedural skill and fluency</li> <li>• MP.1 MP.4 MP.6</li> <li>• E.7 E.8</li> </ul>
Using Proportion to Solve Percent	Derrick Mullins	<ul style="list-style-type: none"> <li>• Finance</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3 Level 4</li> <li>• Level D Num: ratio and rate Alg: proportional relationships</li> <li>• 7.RP.3</li> <li>• 5.NBT.4 6.RP.3c</li> <li>• Conceptual Understanding</li> <li>• MP.4 MP.6</li> <li>• E.7</li> </ul>
Volume of a Rectangular Solid	Ashley Gootee		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level B Geo: area</li> <li>• Level C Geo: volume, surface area</li> <li>• 5.MD.5 5.MD.5b</li> <li>• 3.MD.2 5.MD.3</li> <li>• Level B 3.MD.8 3.OA.5</li> <li>• Level C 4.MD.3</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4 MP.5 MP.6</li> <li>• E.6 E.7 E.8</li> </ul>
What Does the Future Hold?	Jerra Wood	<ul style="list-style-type: none"> <li>• Hospitality and Tourism</li> </ul>	<ul style="list-style-type: none"> <li>• Level 3 Level 4</li> <li>• Level C Stats: statistical variability</li> <li>• Level D Stats: data distributions</li> <li>• 6.SP.2</li> <li>• 6.SP.5</li> <li>• 2.MD.10 3.MD.3</li> <li>• Level C 6.SP.4</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> </ul>

			<ul style="list-style-type: none"> <li>• MP.1 MP.4</li> <li>• E.1 E.7</li> </ul>
What's Your Profit?	Jerra Wood	<ul style="list-style-type: none"> <li>• Hospitality and Tourism</li> </ul>	<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Num: ratio and rate</li> <li>• 7.RP.2 7.RP.3</li> <li>• 7.EE.2 7.EE.3</li> <li>• Level C 6.EE.7</li> <li>• Level D 7.EE.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4 MP.6</li> <li>• E.7</li> </ul>
Whole Number Operations	Sarah Simpson	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 2</li> <li>• Level B Num: add/subtract to 1000 Num: multi/div to 100</li> <li>• Level C Num: operations</li> <li>• 2.NBT.7 3.NBT.2</li> <li>• 4.NBT.5 4.NBT.6</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.4</li> <li>• E.6 E.9</li> </ul>
Word Problem Strategies	Sarah Simpson	<ul style="list-style-type: none"> <li>• Health Science</li> </ul>	<ul style="list-style-type: none"> <li>• Level 2</li> <li>• Level B Num: add/subtract to 1000 Num: mult/div to 100</li> <li>• 2.OA.1 3.OA.3</li> <li>• 3.OA.8 4.OA.3</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.5</li> <li>• E.6 E.7 E.9</li> </ul>
Wrap it Up- Part 1	Ashley Gootee		<ul style="list-style-type: none"> <li>• Level 4 Level 5</li> <li>• Level C Geo: volume, surface area</li> </ul>

			<ul style="list-style-type: none"> <li>• Level D Geo: Solving 2- and 3-dimensional figures</li> <li>• 7.G.6</li> <li>• 6.EE.2c 6.EE.7 G.MG.2</li> <li>• Level D 8.EE.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.2 MP.6</li> <li>• E.1 E.5 E.6</li> </ul>
Wrap it Up- Part 2	Ashley Gootee		<ul style="list-style-type: none"> <li>• Level 4 Level 5</li> <li>• Level C Geo: volume, surface area</li> <li>• Level D Geo: Solving 2- and 3-dimensional figures</li> <li>• 7.G.6</li> <li>• 6.EE.2c 6.EE.7 G.MG.2</li> <li>• Level D 8.EE.2</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.2 MP.6</li> <li>• E.1 E.5 E.6</li> </ul>
Y=MX+B (Just how FUNKY IS THAT?)	Diane Kelley		<ul style="list-style-type: none"> <li>• Level 4</li> <li>• Level D Alg: expressions and linear equations Alg: concept of functions</li> <li>• 8.F.3</li> <li>• Level D 8.F.1 8.F.4</li> <li>• Level E A.SSE.3 F.IF.8b</li> <li>• Conceptual Understanding Procedural skill and fluency Application</li> <li>• MP.1 MP.3 MP.5</li> <li>• E.1 E.7 E.8</li> </ul>